United States Patent [19]

Krasner

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[54] **SMALL INCISION INTRAOCULAR LENS WITH ADJUSTABLE REFRACTIVE POWER**

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[52] **U.S. Cl.** **623/6**; 606/107

[58] **Field of Search** ..... 623/6, 7, 8; 128/303 R, 128/321; 606/107

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[57] **ABSTRACT**

An intraocular lens which is compressible to fit through a small ocular incision into the eye and whose refractive power is adjustable once the inserted lens has been reformed and remedially positioned in the eye. The lens includes a deformable soft optic, a translucent collar encircling the soft optic and attached to it at fixed spaced points, and haptics attached to the collar for remedially positioning the soft optic in the eye. The collar has a separation or break to define two collar arms. When the collar is compressed the arms slide relative to one another to narrow the collar, and the compressed lens can then be inserted in the eye. Once in the eye the collar is released and the arms reformed together to form a rigid circle supporting the soft optic. The soft optic is formed by a transparent bag having a thickened perimeter and filled with a transparent fluid. When the lens is in place in the eye, a fine needle can be inserted into the eye and into the bag perimeter. The amount of fluid in the bag is altered through the needle and the refractive power of the soft optic thereby adjusted as needed.

96 Claims, 2 Drawing Sheets